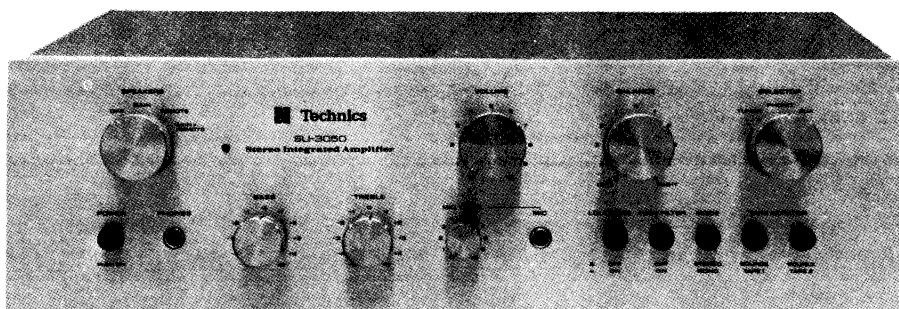


Service Manual

 **Technics**
HI-FI COMPONENTS
 **Technics**
**STEREO INTEGRATED AMPLIFIER****MODEL SU-3050****TECHNICAL SPECIFICATIONS (IHF)**

Music Power	50W (4 Ω)
	44W (8 Ω)
RMS Power (each ch. driven)	20W/20W (4 Ω)
	16W/16W (8 Ω)
Harmonic Distortion :	0.8%
Inter Modulation Distortion (60Hz : 7kHz=4 : 1, SMPTE) :	0.8%
Power Bandwidth :	5Hz~50kHz, -3dB
Residual Hum & Noise :	0.7mV
Damping Factor :	35 (8 Ω)
Rated Load (MAIN or REMOTE) :	4~16 Ω
Input Sensitivity & Impedance	PHONO 2mV/47k Ω
	TUNER 190mV/ 47k Ω
	AUX 190mV/470k Ω
	MIC 2mV/10k Ω
Maximum Input Voltage [PHONO, 1kHz] :	90mV
S/N (IHF, A) :	PHONO 74dB
	TUNER 91dB
	AUX 91dB
	MIC 77dB

Frequency Response :	PHONO (Deviation from RIAA standard)	± 1.0 dB
	AUX 7Hz~90kHz	+0 -3 dB
	MIC 20Hz~20kHz	+0 -3 dB
Tone Control :	BASS 50Hz+10dB ~ -10dB	
	TREBLE 10kHz+10dB ~ -10dB	
Loudness Control : (Volume at -30dB) :	100Hz	+7dB
High Filter :	8kHz	-6dB
Tape Monitor [TAPE 1 · 2] :		
	PLAYBACK	90mV 47k Ω
	REC OUT	90mV 1k Ω

GENERAL

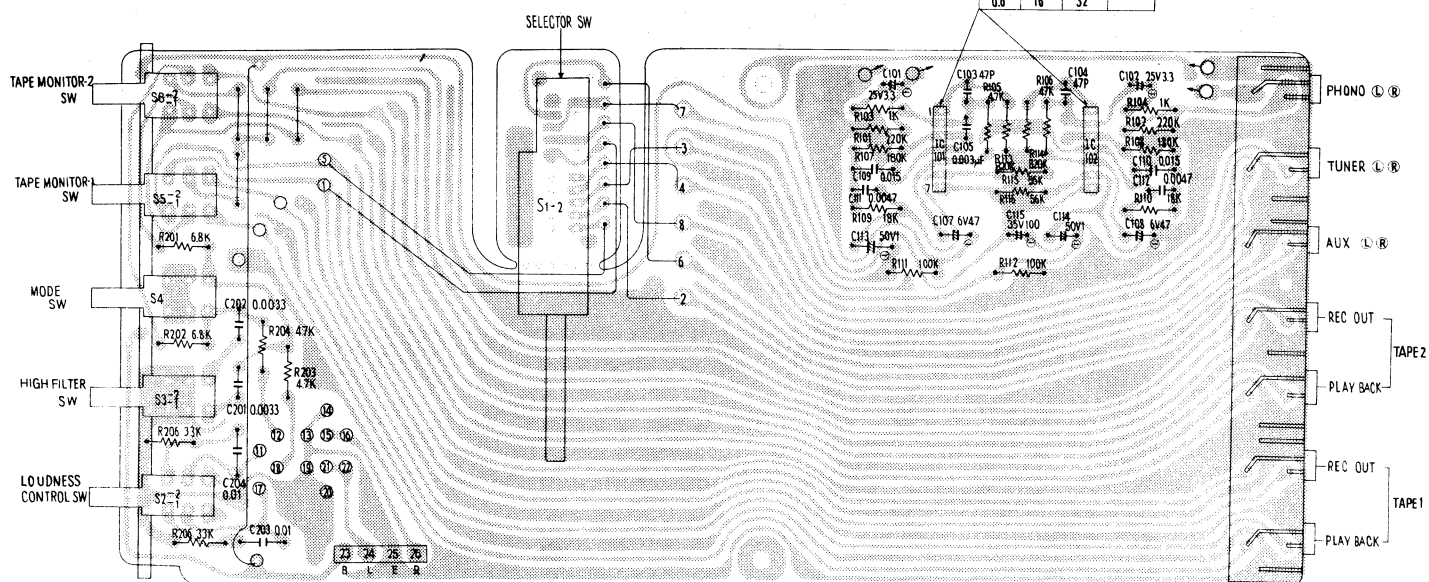
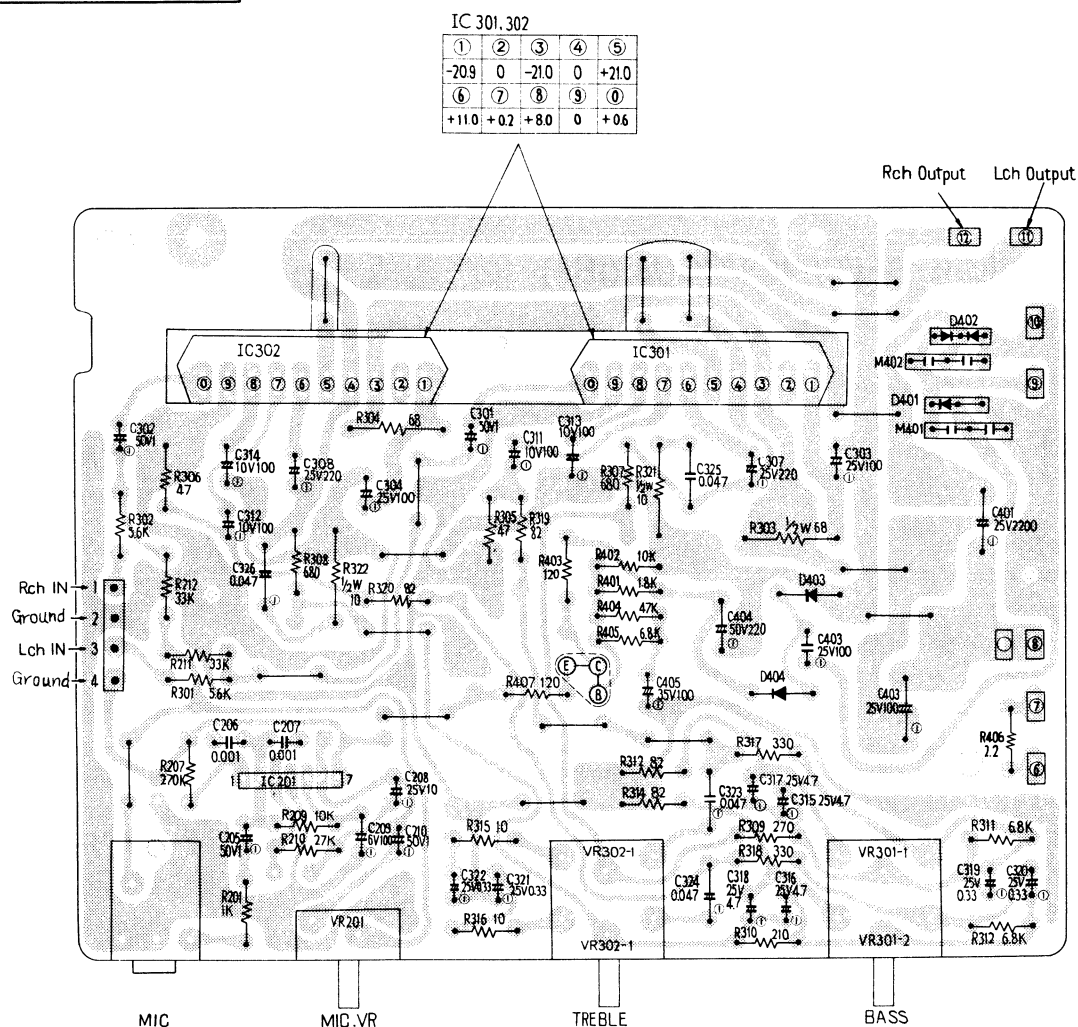
Power Consumption :	120W
Power Consumption (for Australia) :	125W
Power Supply :	50/60Hz 110/120/220/240V
Power Supply (for Australia) :	240V
Dimensions (W×H×D) :	15-3/16"×4-17/32"×11-25/32"
	(386×115×299)mm
Weight :	12.6 lbs. (5.7kg)

Matsushita Electric
Matsushita Electric Trading Co., Ltd.
 P. O. Box 288, Central Osaka, Japan

MODEL SU-3050

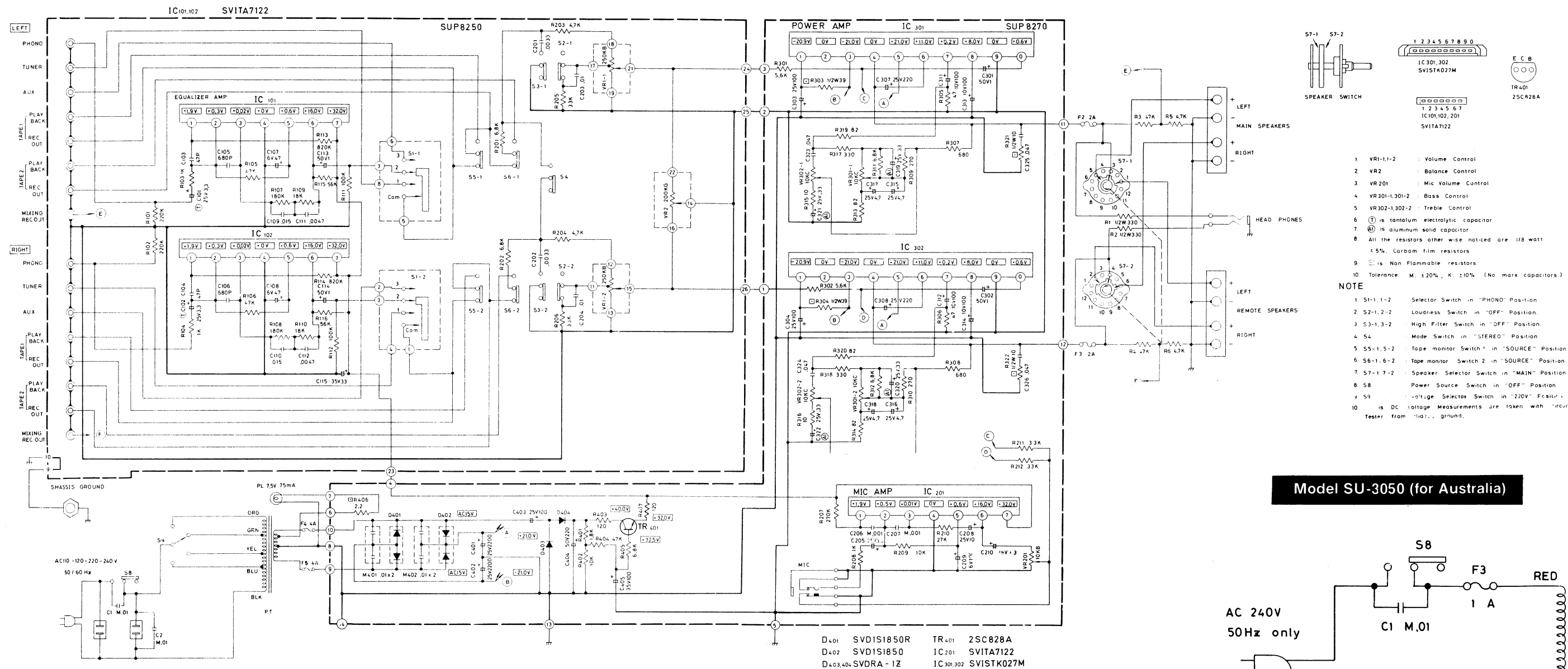
MODEL SU-3050

EQUALIZER, TAPE MONITOR & SELECTOR SWITCH

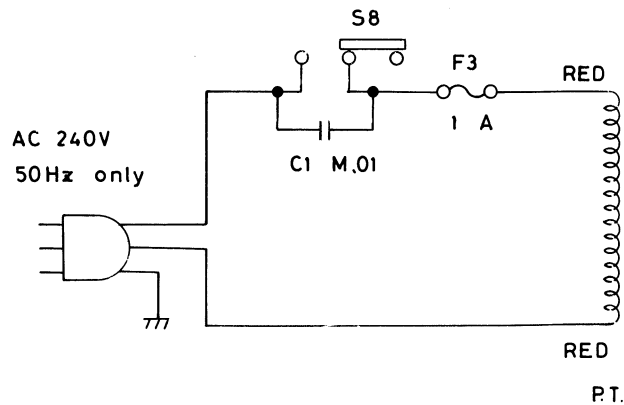
**POWER SOURCE & PRE-MAIN AMP.**

SCHEMATIC DIAGRAM

MODEL SU-3050



Model SU-3050 (for Australia)



LOCATION OF PARTS

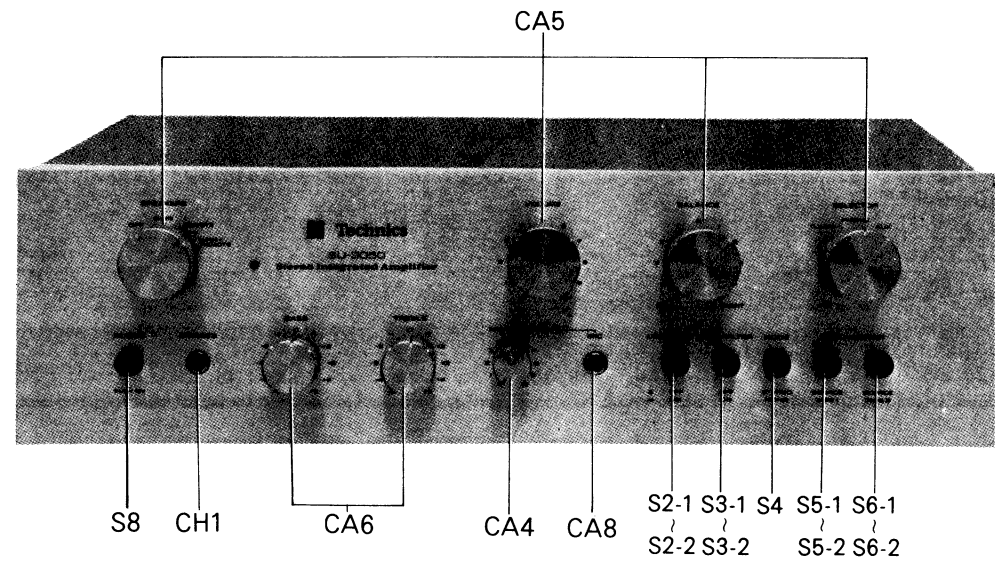


Fig. 1 Front Panel

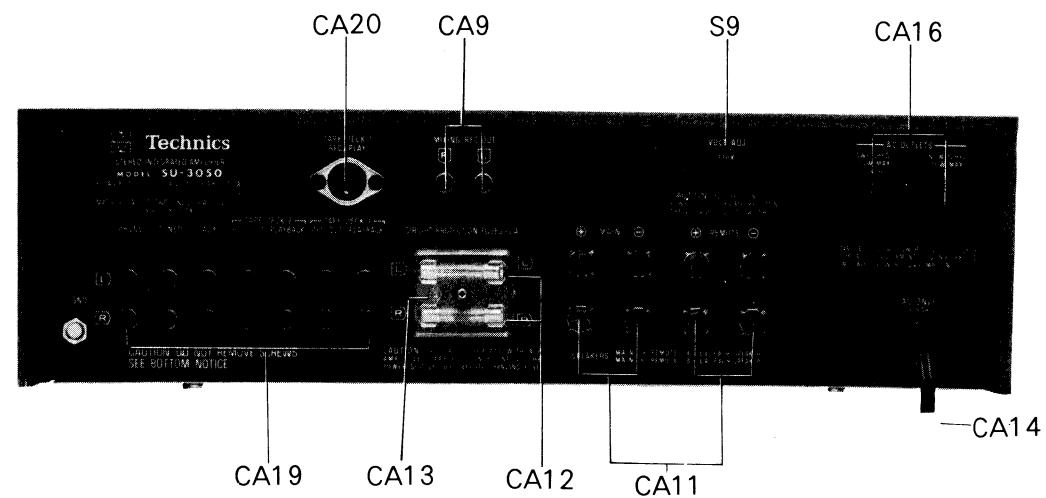


Fig. 2 Rear Panel

REPLACEMENT PARTS LIST

NOTES:

- Part numbers are indicated on most mechanical parts. Please use this part number, for parts orders.
- X-Z rank: X rank parts will cover 80% of repair needs.
X+Y rank parts will cover 95% of repair needs.
Z rank parts are less necessary.

Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks	Ref. No.	Part No.	Description	Per Set (Pcs.)	Remarks
TRANSISTOR and IC					C403	ECEA25V100V	100 μ F. 25WV. Electrolytic	1	Y
TR401	2SC828A-RS	Power P'base	1	X	C404	ECEA50V220LC	220 μ F. 50WV. Electrolytic	1	Y
IC101.102	SVITA7122PBC	Equalizer P'base	2	X	COMPONENT COMBINATIONS				
IC201	SVITA7122PBC	Power P'base	1	X	M401.402	RXAF103P22HD	Power P'base	2	Y
IC301.302	SVISTK027M	Power P'base	2	X	TRANSFORMER				
DIODES					T1	SLT5N127	Power Transformer	1	X
D401	SVD1S1850R	Power P'base	1	X	T1	SLT5N129	Power Transformer (for Australia)	1	X
D402	SVD1S1850	Power P'base	1	X	DIODES				
D403.404	SVDRA-1Z	Power P'base	2	X	S1-1.1-2	SSR31	Selector Switch	1	X
RESISTORS					S2-1.2-2	SSH503S	Loudness Switch	1	X
R101.102	ERD18TJ224	220k Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	S3-1.3-2	SSH503S	High Filter Switch	1	X
R103.204.208	ERD18TJ102	1k Ω . 1/8W. $\pm$ 0.5%. Carbon	3	Y	S4	SSH503S	Mode Switch	1	X
R105.106	ERD18TJ473	47k Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	S5-1.5-2	SSH503S	Tape Monitor Sw. 1	1	X
R107.108	ERD18TJ184	180k Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	S6-1.6-2	SSH503S	Tape Monitor Sw. 2	1	X
R109.110	ERD18TJ183	18k Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	S7-1.7-2	ESRC124F30B	Speaker Selector Switch	1	X
R111.112	ERD18TJ104	100k Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	S8	ESB7036	Power Source Switch	1	X
R113.114	ERD18TJ824	820k Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	S9	SSRA8	Voltage Selector Switch	1	X
R115.116	ERD18TJ563	56k Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	FUSE and LIGHT				
R201.202.311.312.405	ERD18TJ682	6.8k Ω . 1/8W. $\pm$ 0.5%. Carbon	5	Y	F1	XBA2E10NR5	1A Fuse. Power Source (for Australia Only)	1	X
R203.204	ERD18TJ472	4.7k Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	F2.3	XBAS1A2001	2A Fuse. Speaker	2	X
R205.206.211.212	ERD18TJ333	33k Ω . 1/8W. $\pm$ 0.5%. Carbon	4	Y	F4.5	XBA1K40NR5	4A Fuse. Circuit Protection	2	X
R207	ERD18TJ274	270k Ω . 1/8W. $\pm$ 0.5%. Carbon	1	Y	PL	XAMR28K150	Pilot Lamp 7.5V 75mA	1	X
R209.402	ERD18TJ103	10k Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	CABINET PARTS				
R210	ERD18TJ273	27k Ω . 1/8W. $\pm$ 0.5%. Carbon	1	Y	CA1	SKAA840	Cabinet	1	Y
R301.302	ERD18TJ562	5.6k Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	CA2	SGW6330	Front Panel	1	Y
R303.304	ERD12FJ680	68 Ω . 1/2W. $\pm$ 0.5%. Carbon	2	Y	CA3	SYUA110A	Rear Panel	1	Y
R305.306	ERD18TJ470	47 Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	CA4	SBNA123	Knob. Mic Level	1	Y
R307.308	ERD18TJ681	680 Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	CA5	SBNA124	Knob. Speakers. Volume. Balance. Selector.	4	Y
R309.310	ERD18TJ271	270 Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	CA6	SBNA125	Knob. Bass. Treble	2	Y
R313.314.319.320	ERD18TJ820	82 Ω . 1/8W. $\pm$ 0.5%. Carbon	4	Y	CA7	SGLA9	Panel Light	1	Z
R315.316	ERD18TJ100	10 Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	CA8	SJJ37-1	Mic Jack	1	Z
R317.318	ERD18TJ331	330 Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	CA9	SJF3201	2 Pin Jack	1	Z
R321.322	ERD12FJ100	10 Ω . 1/2W. $\pm$ 0.5%. Carbon	2	Y	CA10	SJS5409	4 P Socket	1	Y
R401	ERD18TJ182	1.8k Ω . 1/8W. $\pm$ 0.5%. Carbon	1	Y	CA11	SJFA4803-1	Terminal. Speakers	1	Z
R403.407	ERD18TJ121	120 Ω . 1/8W. $\pm$ 0.5%. Carbon	2	Y	CA12	SJFA5201-1	Fuse Holder	1	Z
R404	ERD18TJ473	47k Ω . 1/8W. $\pm$ 0.5%. Carbon	1	Y	CA13	SJFA5202-1	Fuse Holder Cover	1	Y
R406	ERD18FJ2R2	2.2 Ω . 1/8W. $\pm$ 0.5%. Carbon	1	Y	CA14	SJA33	AC Cord	1	Y
VARIABLE RESISTORS					CA15	SJA51	AC Cord (for Australia)	1	Y
VR1-1.1-2	EWFPXA085BF5	Volume	1	X	CA16	SJA66-1	AC outlet	2	Y
VR2	EVEDVA085G25	Balance	1	X	CA17	SNEA204-2S	Ground Terminal (Screw)	1	Z
VR2-1.2-2	EWF3NA037C14	Bass. Treble	2	X	CA18	SNEA404	Ground Terminal (Nut)	1	Z
VR201	EVCTTA088B14	Mic Level Volume	1	X	CA19	SJF3005	14P Jack Input Terminal	1	Z
CAPACITORS					CA20	SJS13-1	DIN Socket	1	Z
C101.102	ECSZ25EF3R3Q	3.3 μ F. 25WV. Electrolytic	2	Y	CHASSIS PARTS				
C103.104	ECCE1H470K	47pF. 50WV. $\pm$ 10%. Ceramic	2	Y	CH1	SJJ31	Head Phone Jack	1	Z
C105.106	ECKD1H102MD	0.001 μ F. 50WV. $\pm$ 10%. Ceramic	2	Y	CH2	SNE31	Head Phone. Mic Jack (Nut)	2	Z
C107.108	ECEA6V47LF	47 μ F. 6WV. Electrolytic	2	Y	CH3	XTV3+12C	Screw. Power IC	4	Z
C109.110	ECQM05153KZ	0.015 μ F. 50WV. $\pm$ 10%. Polyester	2	Y	CH4	XSBA+16BVCS	Screw. Cabinet	4	Z
C111.112	ECQM05472KZ	0.0047 μ F. 50WV. $\pm$ 10%. Polyester	2	Y	CH5	SJFA2	Fuse Holder (for Australia only)	1	Z
C113.114.301.302	ECEA50V1G	1 μ F. 50WV. Electrolytic	4	Y	CH6	RJR401-1	4P Holder	1	Z
C115.405	ECEA35V100LC	100 μ F. 35WV. Electrolytic	1	Y	CH7	RJR2B	4P Holder	1	Z
C201.202	ECQM05332KZ	0.0033 μ F. 50WV. $\pm$ 10%. Polyester	2	Y	CH8	SHG1205	Lamp Holder Gum	1	Z
C203.204	ECQM05103KZ	0.01 μ F. 50WV. $\pm$ 10%. Polyester	2	Y	CH9	SMY245	Radiating Board	1	Z
C205.210	ECEA25M3R3F	3.3 μ F. 25WV. Electrolytic	2	Y	ACCESSORIES				
C206.207	ECKC1H102MD	0.001 μ F. 50WV. $\pm$ 10%. Ceramic	2	Y	A1	XBAS1A2001	Fuse	2	X
C208	ECEA25V10LF	10 μ F. 25WV. Electrolytic	1	Y	A2	RJP5	Pin Plug	4	Z
C209	ECEA6V100LF	100 μ F. 6WV. Electrolytic	1	Y	A3	RJP16AS	Attachment Plug	1	X
C303.304	ECEA25V100LC	100 μ F. 25WV. Electrolytic	2	Y	A4	RJP17AS	Attachment Plug	1	Y
C307.308	ECEA25V220LC	220 μ F. 25WV. Electrolytic	2	Y	PACKING PARTS				
C311.312.313.314	ECEA10V100LF	100 μ F. 10WV. Electrolytic	4	Y	P1	SPPA39	Polyethylene Bag	1	Y
C315.316.317.318	ECEA25Z4R7F	4.7 μ F. 25WV. Electrolytic	4	Y	P2	SPPA28	Polyethylene Bag	1	Y
C319.320	ECEG25ER33G	0.33 μ F. 25WV. Electrolytic	4	Y	P3	SPSA137	Pad. Side (for the 3rd territory)	2	Y
C321.322	ECQM05473KZ	0.047 μ F. 50WV. $\pm$ 10% Polyester	4	Y	P4	SPSA16-2	Pad. Side (for the 2nd territory)	2	Y
C323.324.325.326	ECET25R2200S	2200 μ F. 25WV. Electrolytic	2	Y	P5	SPSA36	Pad. Top (for the 3rd territory and Australia)	1	Y
C401.402	ECET25R2200S	2200 μ F. 25WV. Electrolytic	2	Y	P6	SPNA390A	Carton Box. Inside (for the 3rd territory)	1	Y
					P7	SPN5083	Carton Box. Inside (for the 2nd territory)	1	Y
					P8	SPGA751A	Carton Box. Outside (for the 3rd territory)	1	Y
					P9	SQF919	Printed Matter (Complete)	1	Y
						SQF935	Printed Matter (for Australia)	1	Y
						SPB1065	Polyethylene Bag	1	Z
						SPS53	Pad. Bottom (for Holland Only)	1	Y